### **PATENT COOPERATION TREATY**

# **PCT**



## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220
R05159PCT	ACTION	as well as, where applicable, item 5 below.
International application No.	International filing date (day/mor	th/year) (Earliest) Priority Date (day/month/year)
PCT/JP2005/018209	26/09/200	5
Applicant		
RICOH COMPANY, LTD.	. <u>-</u>	
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Se ansmitted to the International Bure	arching Authority and is transmitted to the applicant
This International Search Report consists	of a total ofs	neets.
X It is also accompanied by	a copy of each prior art document	cited in this report.
Basis of the report     With regard to the language, the language in which it was filed, unl	international search was carried o ess otherwise indicated under this	nt on the basis of the international application in the item.
The international this Authority (Ru		s of a translation of the international application furnished to
b. With regard to any nucleo	otide and/or amino acid sequenc	e disclosed in the international application, see Box No. I.
2. X Certain claims were fou	nd unsearchable (See Box II).	
3. Unity of invention is lac	king (see Box III).	
4. With regard to the title,		
$\overline{X}$ the text is approved as su		
the text has been establis	shed by this Authority to read as fo	lows:
		•
5. With regard to the abstract,		
the text is approved as su	ubmitted by the applicant.	
		this Authority as it appears in Box No. IV. The applicant ational search report, submit comments to this Authority.
6. With regard to the drawings,		
a. the figure of the drawings to be p	published with the abstract is Figur	e No. <u>5</u>
as suggested by	•	
	is Authority, because the applicant	
	is Authority, because this figure be	tter characterizes the invention.
b none of the figures is to b	e published with the abstract.	

International application No.

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Box No. IV Text of the abstract (Continuation of item 5 of the first sheet)

An optical disk recording method on the write-once or re-writable optical medium comprising the steps of :identifying the media as write-once or re-writable; performind optimal power calibration procedure in the power calibration area of the disk; and switching to the constant linear velocity control during writing data to the write-once disk; or switching to constant angular velocity control in case of writing to the re-writable medium. The power of the light beam during the writing procedure is set according to the calculations received in the power calibration procedure. In another embodiment, after sensing the write-once medium, if the recording data takes place in the location which is not the most inner radial location of the disk, the method of recording data checks whether the radial distance between the location were recording isgoging to place and the most inner data recording location on the disk is less then a half of the distance between the most distant and most inner radial locations of the disk, and then on a base of the result the CAV or CLV of control is applied to control the spin of the disk during recording data the on the writ-once medium.

## INTERNATIONAL SEARCH REPORT

International Application No PCT/JP2005/018209

A. CLASSII	G11B7/0045 G11B19/20		
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	International Patent Classification (IPC) or to both national classification	ation and IPC	
	SEARCHED cumentation searched (classification system followed by classification	on symbols)	
Millinum Go	G11B	on symbolo,	
Documentat	ion searched other than minimum documentation to the extent that s	uch documents are included in the fields se	earched
Electronic da	ata base consulted during the international search (name of data base	se and, where practical, search terms used	)
EPO-In	ternal, PAJ		
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT	•	
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.
Υ	EP 0 779 621 A (FUJITSU LIMITED) 18 June 1997 (1997-06-18) column 2, line 19 - column 4, lir column 33, line 43 - column 35, l column 41, line 11 - column 42, l figures 34-48	ine 12	1–16
Y	US 2002/141308 A1 (MATSUMOTO KEIS 3 October 2002 (2002-10-03) the whole document	SHI)	1–16
A	US 2003/048713 A1 (SUZUKI HARUYUK 13 March 2003 (2003-03-13) paragraph '0016! - paragraph '002 paragraph '0047! - paragraph '006 figures 1-5	28!	1–16
Furt	her documents are listed in the continuation of box C.	X Patent family members are listed	in annex.
	ner documents are listed in the continuation of box C.	*T* later document published after the inte	<del></del>
consid	ent defining the general state of the art which is not lered to be of particular relevance document but published on or after the international	or priority date and not in conflict with cited to understand the principle or th invention  "X" document of particular relevance; the	the application but early underlying the
which	late ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified)	cannot be considered novel or cannot involve an inventive step when the document of particular relevance; the cannot be considered to involve an in	t be considered to cument is taken alone claimed invention
other	ent referring to an oral disclosure, use, exhibition or means ent published prior to the international filing date but	document is combined with one or moments, such combination being obvious in the art.	ore other such docu- us to a person skilled
	nan the priority date claimed actual completion of the international search	"&" document member of the same patent  Date of mailing of the international sea	<u></u>
2	0 December 2005	02/02/2006	
Name and I	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040, Tx. 31 651 epo nl, Fax: (+31–70) 340–3016	Pacholec, D	

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 1-16

The application does not meet the requirements of Article 6 PCT, because claims 1-16 are not clear. The independent claims 1 and 9 use vague and unclear expressions (which are also used in the description of the application), leaving the reader in doubt as to the meaning of the technical features to which they refer.

The expression "recording velocity" (cl. 1, l. 8 and cl. 9, l.12) has been understood as the velocity of the disk (linear or angular) set and controlled at the time of starting writing information to the disk (cl. 1 l.9 and cl.9, l.12-13). Next, the following parts of the claims (cl.1, l.9-11 and cl.9, l.13-15) saying: "when the write once of information is carried out on the optical disk where the write once or rewriting can be carried out..." is totally unclear. It is not understood how can be first suggested writing of the write once information on the write once disk, and then, on the same disk, teaching that write once or rewriting can be carried out.

Therefore the search was performed on the claims in the light of the description (page 18-22 and figures 5,6).

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

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## INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.:     because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: 1-16 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
, ,
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

#### INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/JP2005/018209

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0779621	A	18-06-1997	CN JP JP KR US	1154550 A 3631311 B2 9167428 A 209075 B1 6026068 A	16-07-1997 23-03-2005 24-06-1997 15-07-1999 15-02-2000
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